Listing of the Claims

1. Canceled

2. Canceled

3. (Currently amended) A method for selectively removing carbon monoxide from a gas containing hydrogen comprising:

contacting said gas with a catalyst composition with the formula:

$nN/Ce_{1-(x+y+z)}A_xA'_yA''_zO_{2-\delta}$

where A, A', A" are independently selected from the group consisting of: Zr, Gd, La, Sc, Sr, Co, Cr, Fe, Mn, V, Ti, Cu and Ni; N is one or more members of the group consisting of: Pt, Pd, and Au;
n is a weight percent between 0 and 25;
x, y and z are independently 0 to 0.9;
x + y + z is 0.1 to 0.9; and
δ is a number which renders the composition charge neutral,

whereby the carbon monoxide in said gas is selectively removed.

4. Canceled

5. (Currently amended) A reactor for selectively removing carbon monoxide from a gas which comprises:

a casing having an entrance port, an exit port and a passage therebetween for the movement of said ~~gases~~ gas from said entrance port to said exit port; and

a catalyst composition in said passage with the formula:

$nN/Ce_{1-(x+y+z)}\ A_x\ A'_y\ A''_z\ O_{2-\delta}$

where A, A', A" are independently selected from the group consisting of: Zr, Gd, La, Sc, Sr, Co, Cr, Fe, Mn, V, Ti, Cu and Ni; N is one or more members of the group consisting of: Pt, Pd, and Au;

n is a weight percent between 0 and 25;

x, y and z are independently 0 to 0.9;

x + y + z is 0.1 to 0.9; and

δ is a number which renders the composition charge neutral ~~in said passage~~.

6. Canceled

7. (Original) The reactor of claim 5, wherein said gas contacts said catalyst composition before exiting said casing.

8. (Original)The reactor of claim 5, wherein said reactor is a component of a polymer electrolyte membrane fuel cell.

9. (Original)The reactor of claim 5, wherein the gas in said entrance port comprises carbon monoxide, hydrogen and oxygen.

10. (Original)The reactor of claim 5, wherein said catalyst composition is coated on a support surface.

11. (Original)The reactor of claim 5, wherein said gas in said entrance port is a fuel for a fuel cell.

12. (Original) The method of claim 3, wherein said catalyst composition contains one or more members of the group consisting of: copper, manganese and gold.

13. Canceled

14. (Previously presented) A catalyst composition for selectively removing carbon monoxide from a gas containing hydrogen with the formula:

nN/Ce1-(x+y+z) Ax A'y A"z O2-δ

where A, A', A" are independently selected from the group consisting of: Zr, Gd, La, Sc, Sr, Co, Cr, Fe, Mn, V, Ti, Cu and Ni; N is one or more members of the group consisting of: Pt, Pd, and Au;
n is a weight percent between 0 and 25;
x, y and z are independently 0 to 0.9;
x + y + z is 0.1 to 0.9; and
δ is a number which renders the composition charge neutral, wherein said catalyst composition contains one or more members of the group consisting of: copper, manganese and gold.

15. Canceled

16. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.5}Cu_{0.5}O_w$, where w is a number that renders the composition change neutral.

17. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.475}Zr_{0.05}Mn_{0.475}O_w$, where w is a number that renders the composition change neutral.

18. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.5}Mn_{0.5}O_w$, where w is a number that renders the composition change neutral.

19. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.45}Zr_{0.05}Mn_{0.45}Cu_{0.05}O_w$, where w is a number that renders the composition change neutral.

20. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.5}Fe_{0.1}Cu_{0.4}O_w$, where w is a number that renders the composition change neutral.

21. Canceled

22. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.1}Mn_{0.45}Cu_{0.45}O_w$, where w is a number that renders the composition change neutral.

23. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.1}Mn_{0.45}Fe_{0.55}0_w$, where w is a number that renders the composition change neutral.

24. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.3}Mn_{0.7}O_w$, where w is a number that renders the composition change neutral.

25. (Previously presented) The catalyst composition of claim 14 having the formula $Ce_{0.3}Mn_{0.65}Zr_{0.05}O_w$, where w is a number that renders the composition change neutral.

26. Canceled

27. Canceled